



# S.G. INTERNATIONAL GROUP H.K. LIMITED

## SHENZHEN SHUGUANG ELECTRONICS CO., LTD

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### ➤ Video Transmission Series



### Point-to-Point 1-Channel Video Transmission Series

- ◆ Supports point-to-point connection
- ◆ Unpressed and undistorted digital broadcasting transmission
- ◆ Free from intermodulation interference from optical transceivers for simulated frequency, phase, and amplitude modulations
- ◆ Supports any high-resolution video signals
- ◆ Supports video nondestructive regenerated relay
- ◆ Auto compatible with PAL, NTSC, and SECAM video systems
- ◆ Supports video, audio, data, Ethernet, and telephone voice parallel transmission
- ◆ KM optical transmission technology, large in capacity and easy for upgrade
- ◆ WDM/CWDM/DWDM optical techniques
- ◆ Transmission in monomode and multimode fiber, at a distance of 0 - 100KM
- ◆ Special ASIC design and high-speed DSP technology
- ◆ Advanced auto-negotiation technology, no need to adjust for application
- ◆ Full SMT technology
- ◆ Industry standard design, with high reliability
- ◆ Wall hanging type, 1U rack type, and 4U card type
- ◆ Supports user customization and OEM service

#### Technical Specification

- ◆ Video Interface (1-Channel Forward or Reverse)
  - Video I/O Impedance BNC 75Ω non-balanced interface
  - Video I/O Voltage Typical Peak – Peak Value 1 Vpp, Max. 1.5 Vpp
  - Video Bandwidth 8MHZ
  - Video Digital Bit Width 8/10 bit
  - Differential Gain <1%
  - Differential Phase <1°
  - Field Tilt <0.5%
  - SNR 67dB
- ◆ Audio Interface (1~32-Channel Simplexing/Duplexing Audio)
  - Physical Interface Industry standard connector terminal or Cannon
  - Audio I/O Impedance 600Ω or other various impedances
  - Audio I/O Electrical Level Typical 0dBm
  - Frequency Response 10HZ-20KHZ
  - Audio Digital Bit Width 24 bit
  - SNR 85dB



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### ➤ Video Transmission Series

◆Data Interface (Supports 1-32-Channel Asynchronous RS-232/485/422 Data Transmission)

Physical Interface DB9, DB25/F, industry standard connector terminal or RJ45 connector jack

RS-232 Rate DC-115.2Kbps

RS-422/485 Rate DC-1.2Mbps

RS-422/485 Distance 0 – 1200M

RS-422/485 Protocol Transparently supports random RS-485/422 protocol

I/O Switching Value, Warning Data, and Supports controlled relay output

◆Ethernet Interface

Physical Interface Shielded Super-type 5 RJ-45 Connector Jack

Protocols Supported IEEE 802.3 10M, 100M, and 10/100M auto-negotiation Ethernet

Operating Mode Full/Half Duplexing

◆Telephone Interface (Multiple Channels)

Physical Interface RJ-11 Connector Jack

Voice Bandwidth 8KHZ

Operating Mode Point-to-point hotline, program controlled switch/extension mode

◆Optical Interface

Physical Interface FC/PC, ST/PC, and SC/PC

Type of Fiber Monomode/Multimode Fiber, Single/Double Fiber

Transmission Distance Multimode: 0-3km; Monomode: 0-25km, 0-60km, and 0-100km

◆Environment

Operating Temperature -45℃~85℃

Humidity 0~95% non-condensing

Input Voltage AC/DC 220V, DC -48V, +24V, +12V, and +5V optional

- ◆ SG1000S(M)T/R 1-Channel Video
- ◆ SG11XXS(M)T/R 1-Channel Video + Data
- ◆ SG12XXS(M)T/R 1-Channel + Audio + Data
- ◆ SG13XXS(M)T/R 1-Channel Video + Telephone + Data
- ◆ SG14XXS(M)T/R 1-Channel Video + Ethernet + Data
- ◆ SG15XXS(M)T/R 1-Channel Video + Telephone + Ethernet + Data
- ◆ SG1XXXXJS(M)T/R 1-Channel Video + Audio + Data + Telephone + Ethernet (Model for User Customization)